

## Power Limiter

### DC-40GHz/32dBm, Power Handling

Model: TLMTDC40G-35-12

The TLMTDC40G-35-12 is a broadband limiter product. This limiter has an operating frequency range that can cover DC-40 GHz and features stable performance.

#### Features:

- Frequency range: DC-40GHz
- RF Power Handling: 32dBm
- Limiting power: 7dBm@40GHz, Pin=16dBm
- Low Insertion Loss
- 50 Ohm Matched Input / Output

#### Applications:

- Communication receiver
- Laboratory test
- Sensor radar

### 电气特性 Electrical Characteristics:

参数 Parameter		Min	Typ	Max	单位 Units
频率范围 Frequency range		DC		40	GHz
插损 Insertion Loss			2.3		dB
限幅电平 Limiting power	1GHz@Pin=20dBm		12		dBm
	20GHz@Pin=20dBm		11		
	40GHz@Pin=16dBm		7		
输入三阶交调点 Input IP3			25		dBm
输入P1dB Input P1dB			11		dBm
驻波 VSWR			2		:1
耐功率 Power handling			32		dBm
阻抗 Impedance			50		Ohms

### 机械特性 Mechanical Specifications:

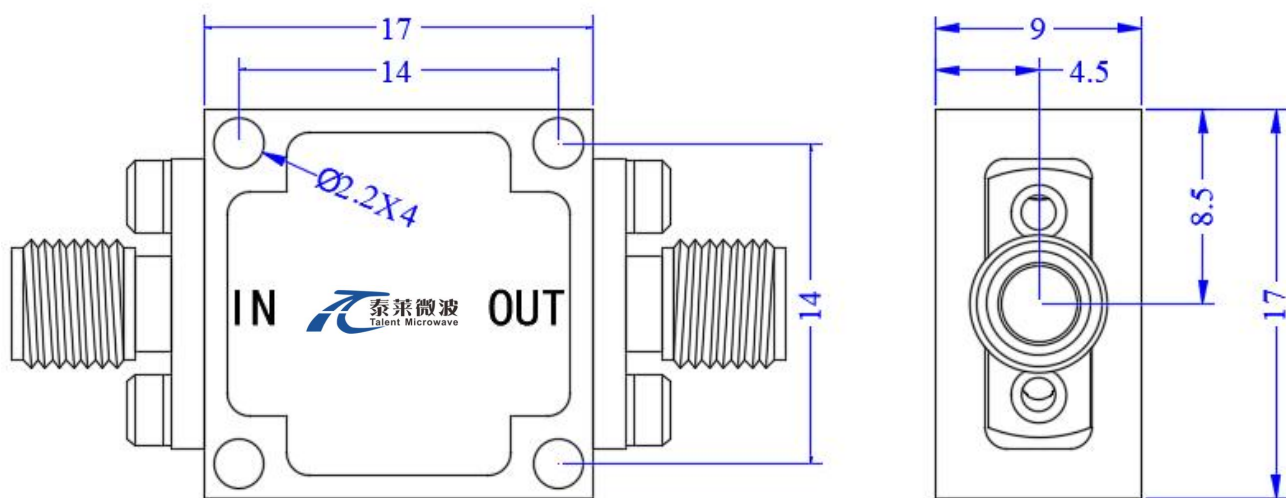
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	2.92mm Female/2.92mm Female	
尺寸 Size	17*17*9	mm
重量 Weight	50	g

**绝对最大值 Absolute Maximum Ratings:**

参数 Parameter	指标 Value
输入功率 RF Input Power	+32 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

**外形图 Outline Drawing:**

Unit:mm; Tolerance:±0.1mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

**温度环境 Environmental Conditions:**

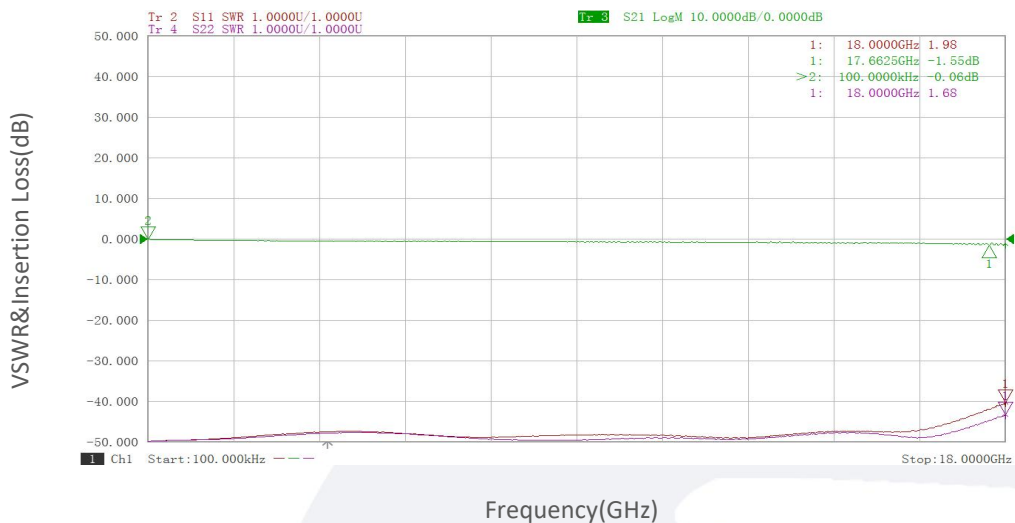
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude		10,000		feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

## 订货信息 Ordering Information:

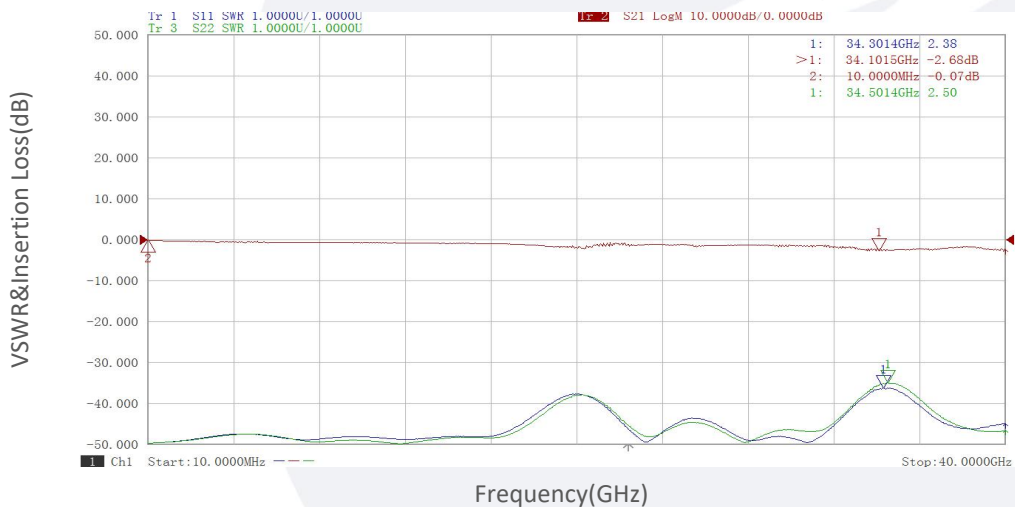
标准型号 Base Number	描述 Description	版本号 Revision
TLMTDC40G-35-12	Power Limiter, DC-40GHz, Limiting power: 7dBm	Rev.1.0

## 典型曲线 Typical Performance Data:

### VSWR&Insertion Loss vs Frequency

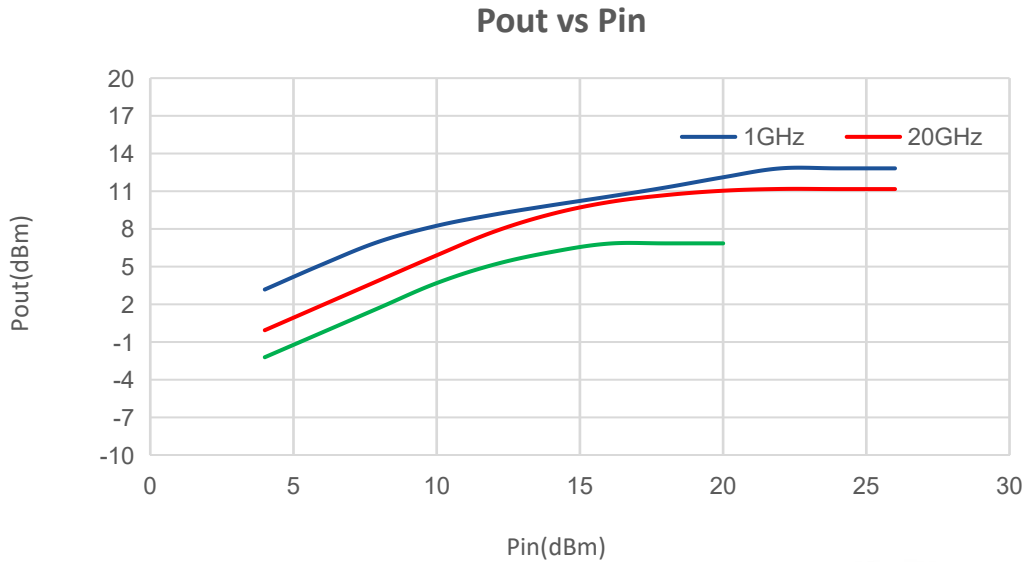


### VSWR&Insertion Loss vs Frequency



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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